

FIG. 1

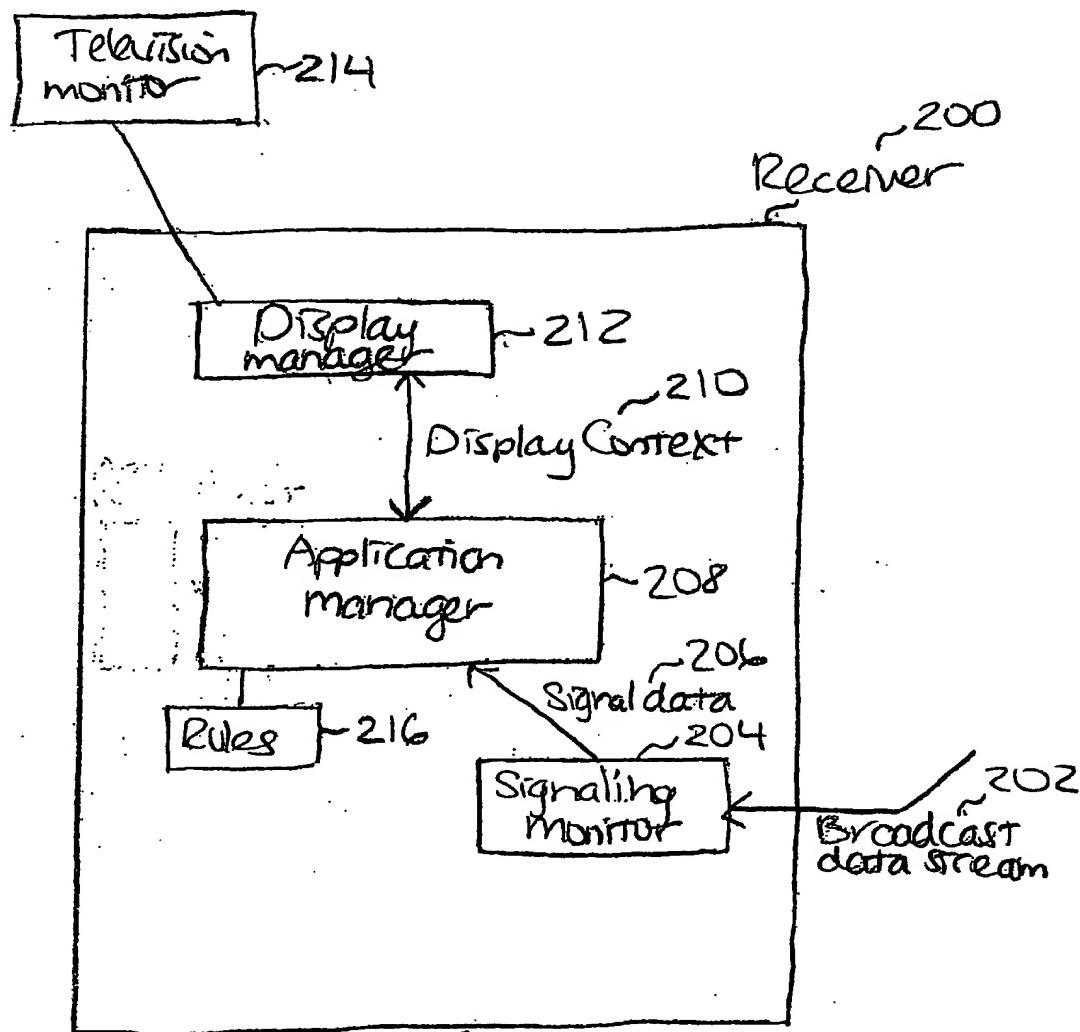


FIG. 2A

- Rules** 216
- 218 1. Application Manager manages one or more applications
 - 220 2. Only one application can be active at a time
 - 222 3. Only one application can be displayed at a time
 - 224 4. Only active applications are displayed

FIG. 2B

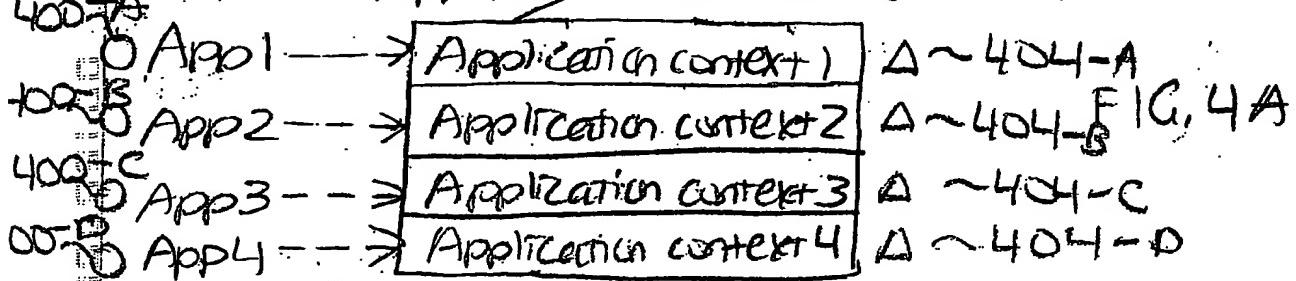
Signal Data ~302

App-present-in-data-stream; BOOLEAN	~304
Location (e.g., directory, filename)	~306
Authentication	~308
Permissions	~310

FIG. 3



Application context list ~ 402



Application Context Δ ~ 404

Class loader identifier	<u>406</u>
Signal data identifier	<u>408</u>
Display context identifier	<u>410</u>
Application identifier	<u>412</u>
Application environment object	<u>414</u>
Current application state	<u>416</u>

FIG. 4B



~212

400-A List of display contexts ~502

App1 →	ID1	Context1	~506
App2 →	ID2	Context2	
App3 →	ID3	Context3	
App4 →	ID4	Context4	~504

FIG. 5A

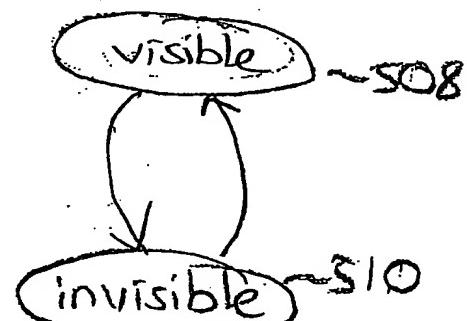


FIG. 5B

S16 ~	Application state	Active	Paused
S14 ~	Display state	Visible	Invisible

~512

FIG. 5C

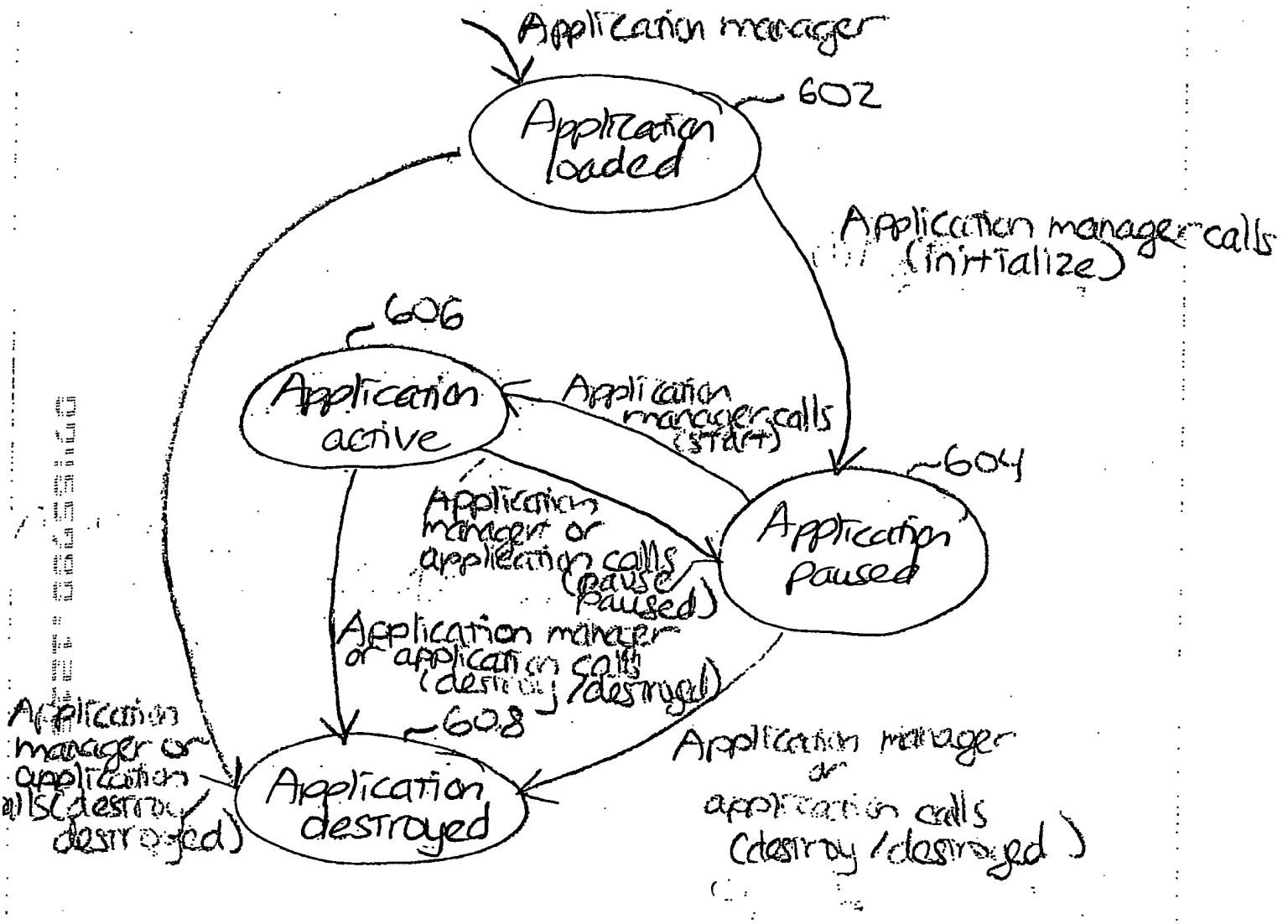


FIG. 6

Application Programming Interface (API)

~702

Interface application {

704 ~ public void init application (Application environment env);
708 ~ public void start application();
710 ~ public void pause application();
712 ~ public void destroy application (boolean unconditional);

}

~706

~714

10 Change of state

FIG. 7

ApplicationEnvironmentInterface

```
~802
Interface Application-environment {
    804 ~ public void destroyed();
    808 ~ public java.lang.Object + getProperty(String key);
    806 ~ public void paused();
    812 ~ public void resumeRequest();
}
```

FIG. 8

Application ~902
Manager

Application ~904

Call init application () → ~906
Call start application () → ~908

Call destroy application () → ~910

Call pause application () → ~912

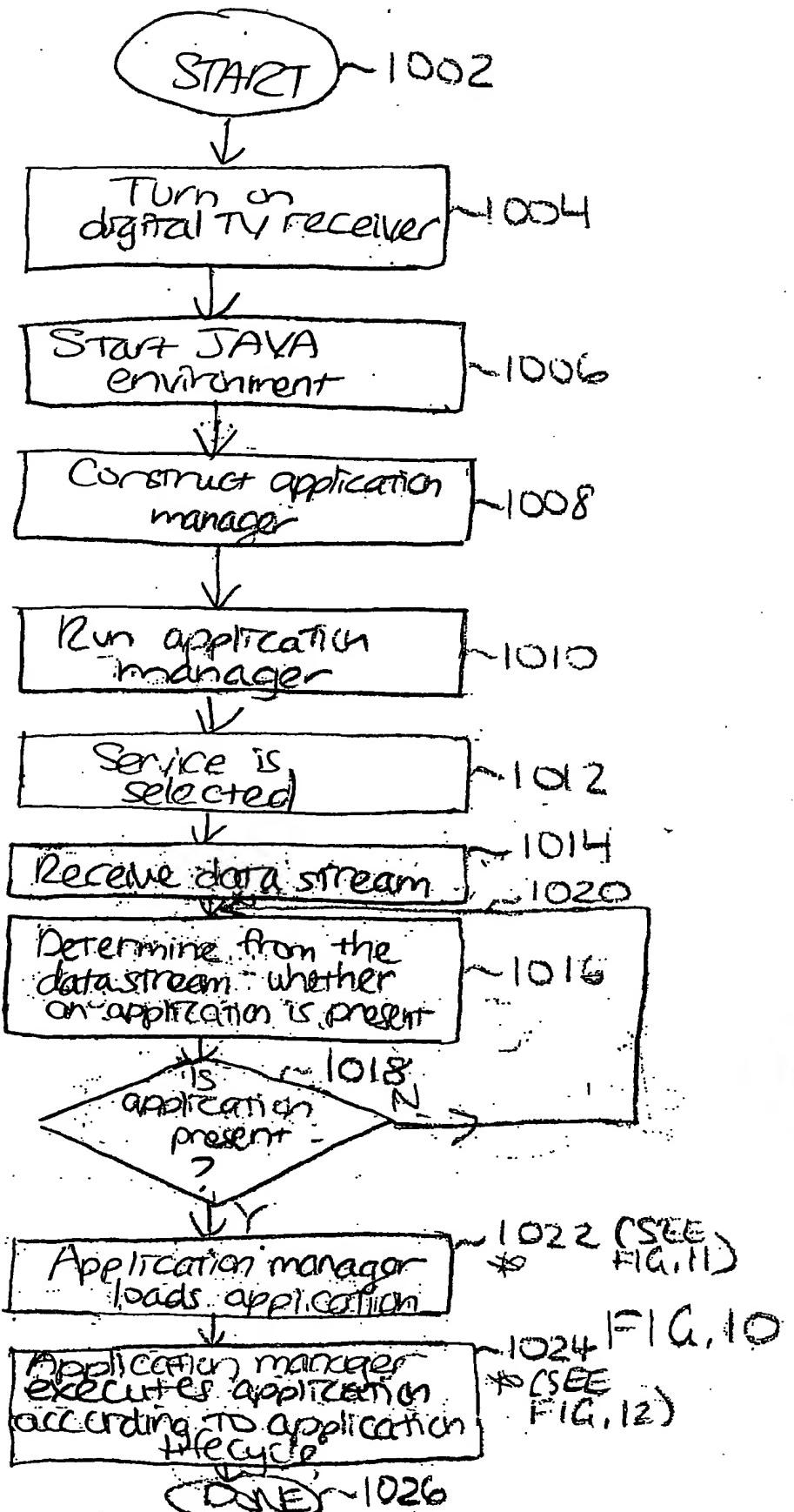
914 ~ ← Application-environment application paused()

916 ~ ← Application-environment application destroyed()

918 ~ ← Application-environment resume request()

920 ~ ← Application-environment getproperty()

FIG. 9:



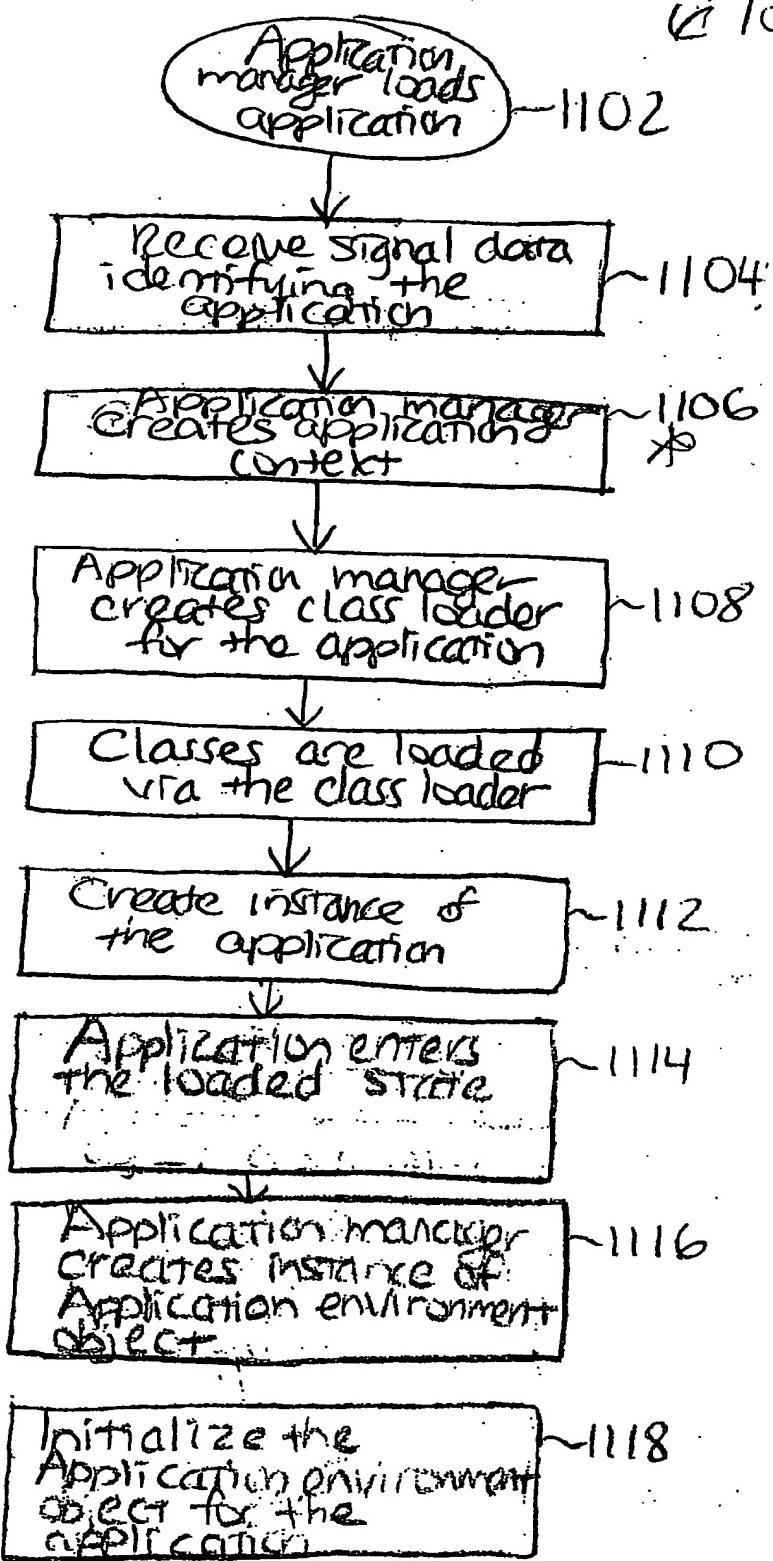


FIG. 11

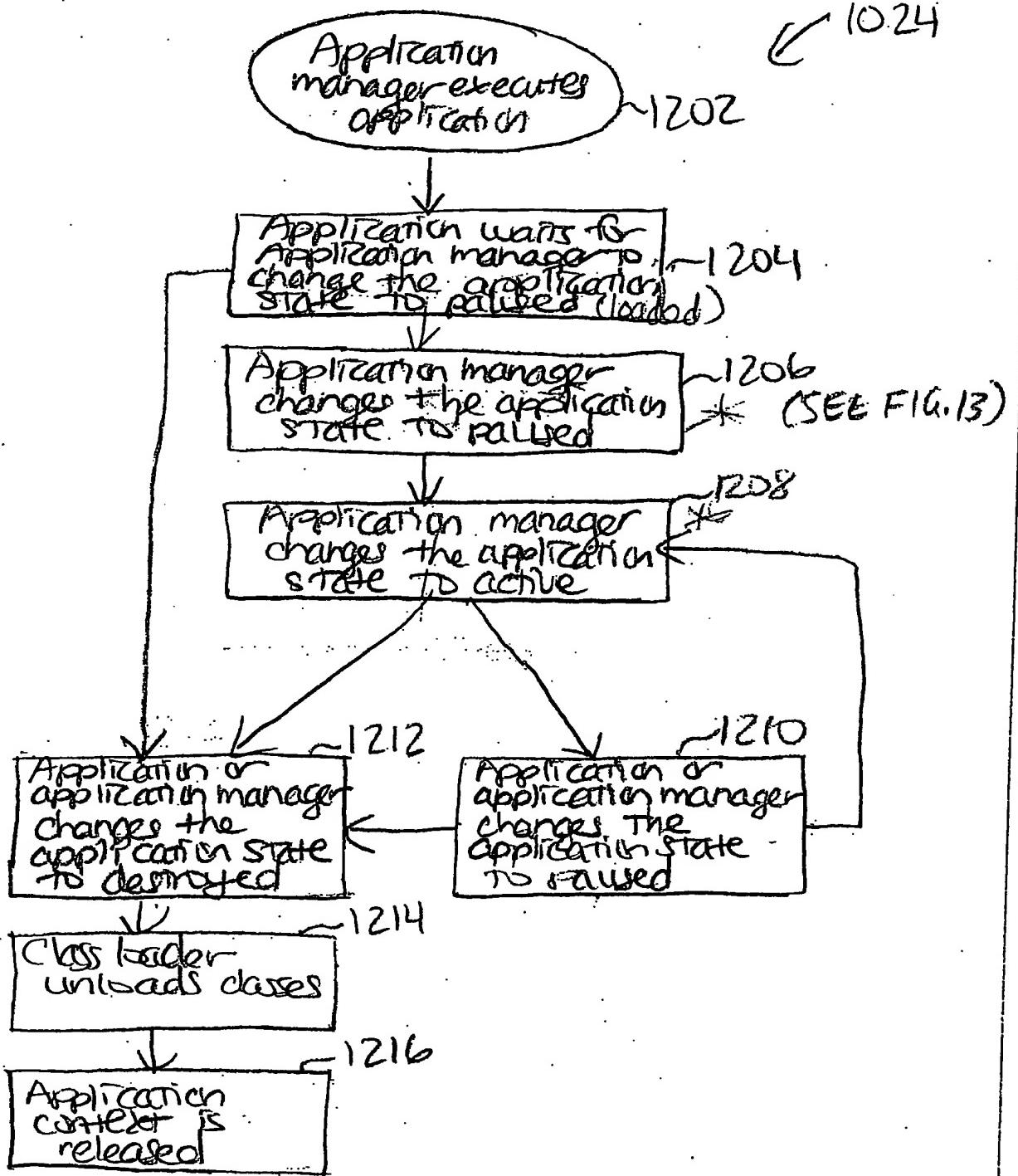


FIG.12

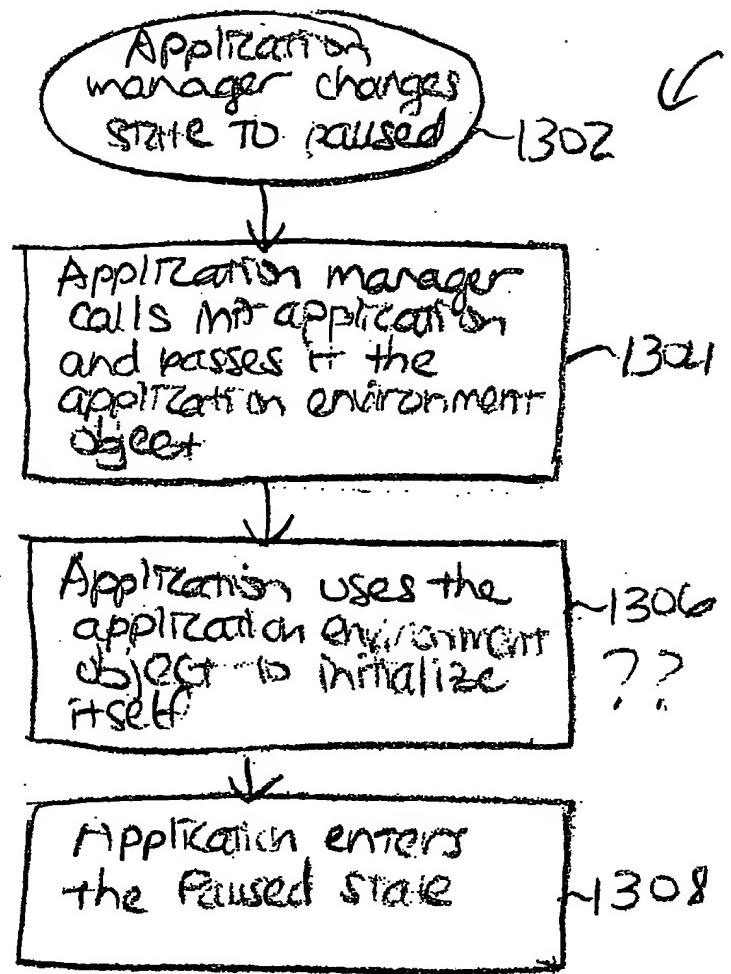


FIG. 13

1208

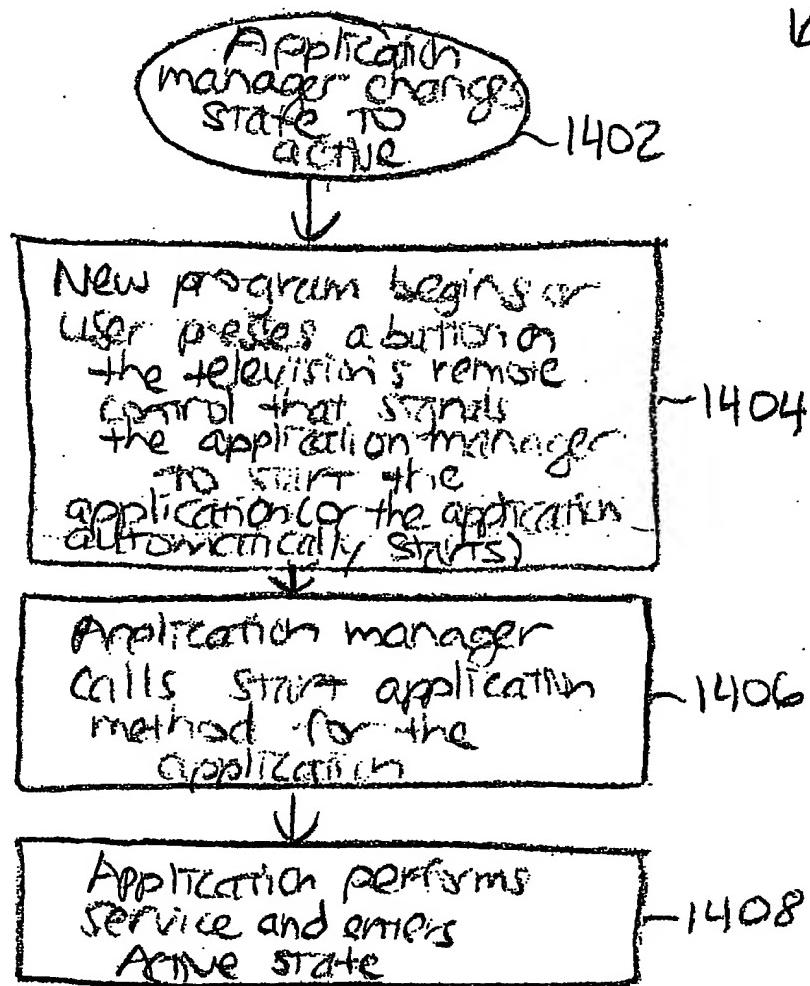


FIG. 14

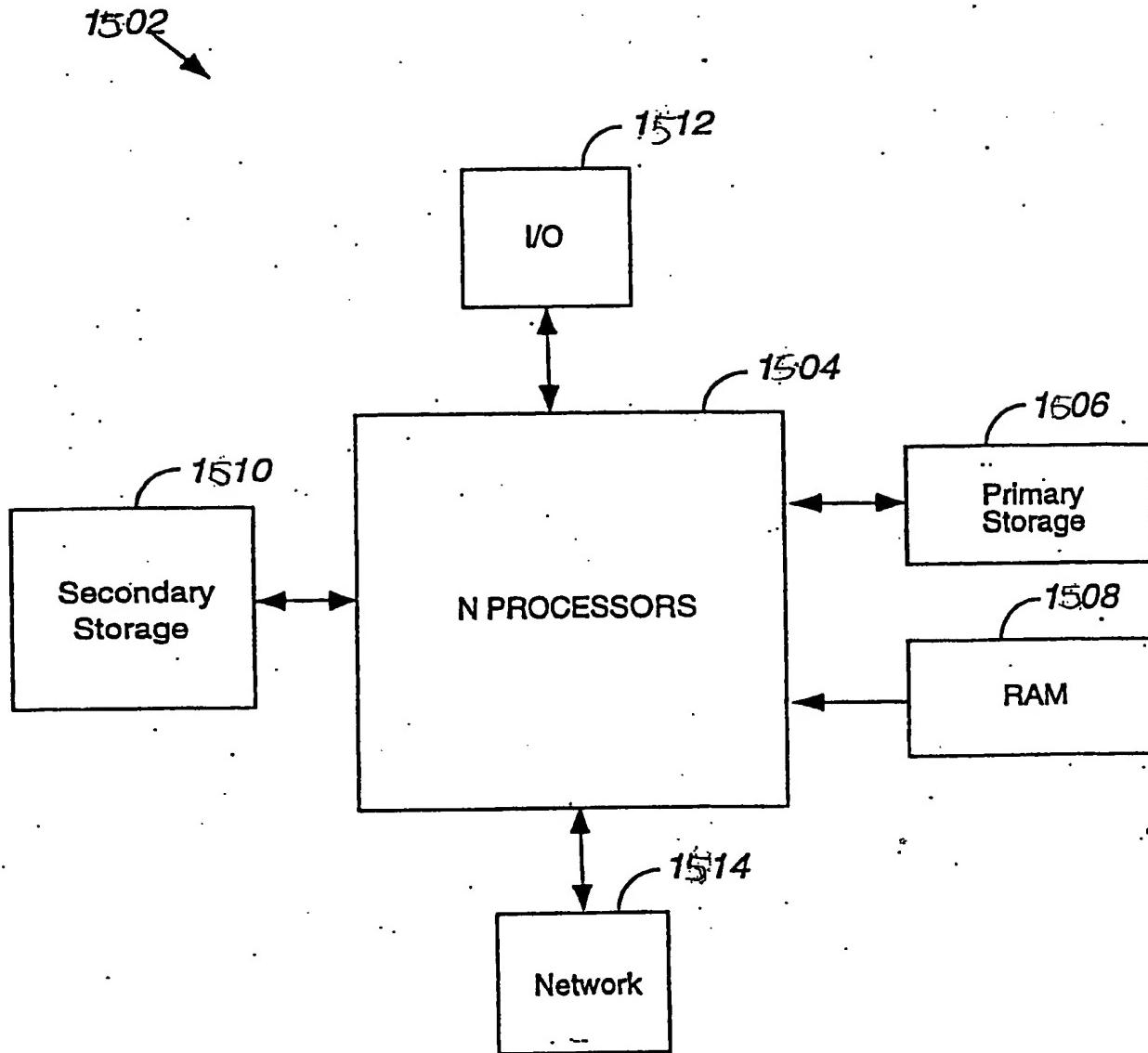


Figure 15.

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